ELSEVIER

Colloids and Surfaces
A: Physicochemical and Engineering Aspects 175 (2000) 393–394

COLLOIDS AND SURFACES A

www.elsevier.nl/locate/colsurfa

Contents of Volume 175

Vol. 175 Nos. 1–2

(*Special Issue*: *The First Conference on Amphiphiles at Interface - From Structure Control to Properties*)

Editorial
Amphiphiles at interfaces — from structure control to properties
J. Li and R. Miller 1
Myelin basic protein–lipid complex: an atomic force microscopy study
N. Lanteri, R. Rolandi (Genoa, Italy), P. Cavatorta, E. Polverini (Parma, Italy), P. Riccio (Potenza, Italy) and A. Gliozzi (Genoa, Italy) 3
Fixation of single-stranded DNA nucleotide by self assembly technology
L. Lin, J. Li and L. Jiang (Beijing, People's Republic of China) 11
Protein adsorption at a static and expanding air–water interface: a neutron reflection study
A.A. van Well and R. Brinkhof (Delft, The Netherlands) 17
Electric linear dichroism. A powerful method for the ionic chromophore–colloid system as exemplified by dye and montmorillonite suspensions
K. Yamaoka, R. Sasai and N. Takata (Higashi-Hiroshima, Japan) 23
The aggregation and phase separation behavior of a hydrophobically modified poly(*N*-isopropylacrylamide)
X. Shi, J. Li, C. Sun and S. Wu (Beijing, China). 41
Molecular orientation as a controlling process in adsorption dynamics
F. Ravera, L. Liggieri (Genova, Italy) and R. Miller (Golm, Germany). 51
pH value and ionic strength effects on the adsorption kinetics of protein/phospholipid at the chloroform/water interface
L. Yan, Y. Zhang, G. Cui and J. Li (Beijing, China) 61
Effect of the surface polarization on the nucleation at liquid/gas interfaces
B. Radoev and M. Avramov (Sofia, Bulgaria). 67
Stability investigation of the mixed DPPC/protein monolayer at the air–water interface
H. Zhang, X. Wang, G. Cui and J. Li (Beijing, People's Republic of China). 77
Surface dilatational rheological study of the *trans–cis* isomerisation of copolymers with trifluoromethoxy substituted metacrylate monolayers
R. Wüstneck (Potsdam, Germany), D. Prescher (Teltow, Germany), S. Katholy (Potsdam, Germany), G. Knochenhauer (Teltow, Germany) and L. Brehmer (Potsdam, Germany) 83
Mixed monolayers of phospholipids with a viologen and the electrochemical properties in Langmuir–Blodgett films
D.-J. Qian, C. Nakamura and J. Miyake (Ibaraki, Japan). 93
Properties of mixed monolayer and LB films of chiral amino acid porphyrin
J.-M. Ouyang, Z.-M. Zhang, C.-X. Huang, X.-Q. Yao, H.-Y. Liu and X.-M. Hu (Guangzhou, PR China) 99
Penetration of human apolipoprotein H into air/water interface with and without phospholipid monolayers
Y.-t. Sun, S.-x. Wang and S.-f. Sui (Beijing, PR China) 105
Dynamic characterization of phospholipid/protein competitive adsorption at the aqueous solution/chloroform interface
J. Wu, J.B. Li, J. Zhao (Beijing, People's Republic of China) and R. Miller (Golm/Potsdam, Germany). 113
L-Cysteine chemisorption on gold: an XPS and STM study
G. Dodero, L. De Michieli, O. Cavalleri, R. Rolandi, L. Oliveri, A. Daccà and R. Parodi (Genoa, Italy). 121
Affinity aspects of HBsAb–HBsAg interaction on the liquid–solid interface
D. Wang (Nanjing, PR China), D. Jiang (Guangzhou, PR China) and C. Yuan (Nanjing, PR China) 129
Co-sensitization of microporous TiO_2 electrodes with dye molecules and quantum-sized semiconductor particles
Y.-c. Shen, H. Deng, J. Fang and Z. Lu (Nanjing, PR China) 135
Electrochemical studies for the formation of sodium lauryl sulfate monolayer on an octadecanethiol-coated gold electrode
X. Cui (Shanghai, PR China), D. Jiang, P. Diao, J. Li, Z. Jia and R. Tong (Shijiazhuang, PR China) 141
Characterization of DNA hybridization on the optical fiber surface
H. Lü, Y. Zhao, J. Ma, W. Li and Z.H. Lu (Nanjing, PR China). 147
Interactions of an amphiphilic thiacarbocyanine dye with polypeptides and DNA at the air/water interface
M. Liu, J. Lang (Beijing, PR China) and H. Nakahara (Urawa, Japan) 153
Effect of LB monolayers on the mixed crystals of lead and barium sulfate
L. Lehui, W. Liying, Z. Guangfu, C. Haining and X. Shiquan (Changchun, PR China) 161
Monolayer formation and Langmuir–Blodgett films of benzimidazole derivatives without alkyl chain
J. Cai, M. Liu, C. Dong, J. Li, J. Tang and L. Jiang (Beijing, PR China) 165

Monolayer behaviors and LB films of dihydroxo (phthalocyaninato) silicon and its polymer — one-dimensional phthalocyaninato-polysiloxanes
P.-l. Chen, D.-h. Tang, X.-b. Wang, H. Chen, M.-h. Liu, J.-b. Li and X.-h. Liu (Beijing, PR China) 171
Effect of surfactants on the stability of films between two colliding small bubbles
D.S. Valkovska, K.D. Danov and I.B. Ivanov (Sofia, Bulgaria) 179
A Fourier transform infrared study on water-induced reverse micelle formation of block copoly(oxyethylene–oxypropylene–oxyethylene) in organic solvent
C. Guo, H.-Z. Liu and J.-Y. Chen (Beijing, China) 193
A.c. impedance studies of the mechanism of electron transfer across TCNQ modified Au/thiol/lipid bilayer
P. Diao, M. Guo, D. Jiang, Z. Jia, D. Gu, R. Tong (Shijiazhuang, People's Republic of China) and B. Zhong (Taiyuan, People's Republic of China) 203
Studies of concentrated surfactant solutions using the maximum bubble pressure method
N.A. Mishchuk (Kiev, Ukraine), V.B. Fainerman (Donetsk, Ukraine), V.I. Kovalchuk (Kiev, Ukraine), R. Miller (Golm, Germany) and S.S. Dukhin (Kiev, Ukraine) 207
Self-assembled multilayers of alternating gold nanoparticles and dithiols: approaching to superlattice
W. Li, L. Huo, D. Wang, G. Zeng, S. Xi (Changchun, PR China), B. Zhao, J. Zhu, J. Wang, Y. Shen and Z. Lu (Nanjing, PR China) 217
Formation of organized adsorption layers by amphiphilic dendrimers
T. Imae, M. Ito, K. Aoi, K. Tsutsumiuchi, H. Noda and M. Okada (Nagoya, Japan) 225
Some amphiphilic polymers at interface and functional films
J. Shen, L. Wang and X. Zhang (Changchun, People's Republic of China). 235
Interactions between alkali/surfactant/polymer and their effects on emulsion stability
K. Wanli (Anda, People's Republic of China), L. Yi, Q. Baoyan (Daqing, People's Republic of China), L. Guangzhi (Anda, People's Republic of China), Y. Zhenyu and H. Jichun (Daqing, People's Republic of China) 243
The effects of surfactants on the activity of invertase and superoxide dismutase of soybean leaf in vitro and in vivo
Y. Xiaoli, L. Xuegang, S. Changbin, C. Shihong and W. Qiang (Chongqing, People's Republic of China) 249
Studies on cloud point of agrochemical microemulsions
F. Chen, Y. Wang, F. Zheng, Y. Wu and W. Liang (Beijing, People's Republic of China) 257
Viscosity of oil and surfactant binary solution
Z. Zhou, M. Li and H. Yan (Beijing, PR China). 263
Calendar 267

Vol. 175 No. 3

Structural and rheological properties of microheterogeneous systems 'solid hydrocarbons–liquid hydrocarbons'
S.V. Remizov (Moscow, Russia), E.A. Kirsanov (Colomna, Russia) and V.N. Matveenko (Moscow, Russia) 271
Emulsions in porous media. I. Transport and stability of polyaphrons in sand packs
W.K. Vidrine, C.S. Willson and K.T. Valsaraj (Baton Rouge, LA, USA). 277
Electrohydrodynamic synthesis, characterisation and metal uptake studies on polypyrrole colloids stabilised by polyvinylphosphate dopant
J.M. Davey, P.C. Innis, S.E. Ralph, C.O. Too, G.G. Wallace (Wollongong, Australia) and A.C. Partridge (Lower Hutt, New Zealand) 291
The edge fracture occurrence on lyotropic liquid crystals
M.R. Alcantara and A.F. de Moura (São Paulo, Brazil) 303
The effect of organic additives on critical micelle concentration of non-aqueous micellar solutions
M.S. Akhter and S.M. Alawi (Isa Town, Bahrain) 311
The synthesis of colloidal particles of calcium thiophosphates in a microemulsion: influence of the parameters of the process
A. Chivé, B. Delfort, M. Born, L. Barré (Rueil-Malmaison, France), Y. Chevalier (Vernaison, France) and R. Gallo (Marseille, France) 321
Behavior of dinonylnaphthalene sulfonate monolayers at the air–water interface
D.J. Chaiko and K. Osseo-Asare (University Park, PA, USA) 335
The influence of pH and NaCl on the zeta potential and rheology of anatase dispersions
J. Gustafsson, P. Mikkola, M. Jokinen and J.B. Rosenholm (Åbo, Finland) 349
Electrochemical studies of interaction between ceyltrimethylammonium bromide and α-, β-cyclodextrins at various temperature
H. Gharibi, S. Jalili and T. Rajabi (Tehran, Iran) 361
Optimization of hydrodynamic treatment regime in the processes of sorption–flocculation water purification from organic contaminants
N.N. Rulyov (Kiev, Ukraine), A. Maes (Leuven, Belgium) and V.J. Korolyov (Kiev, Ukraine) 371

Calendar 383
Author Index. 387
Subject Index. 389
Volume Contents 393